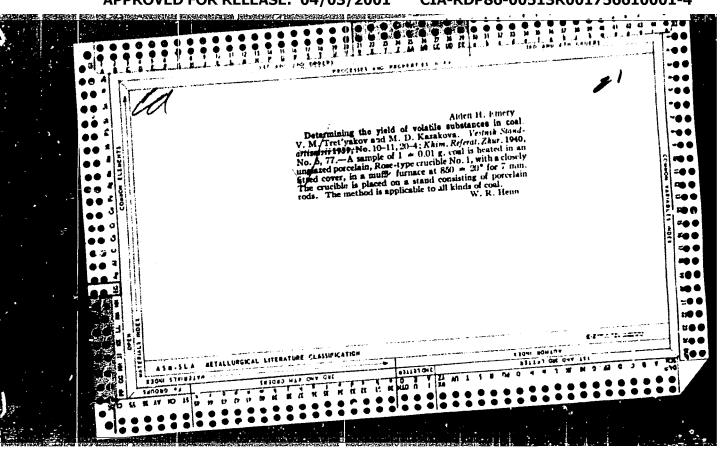
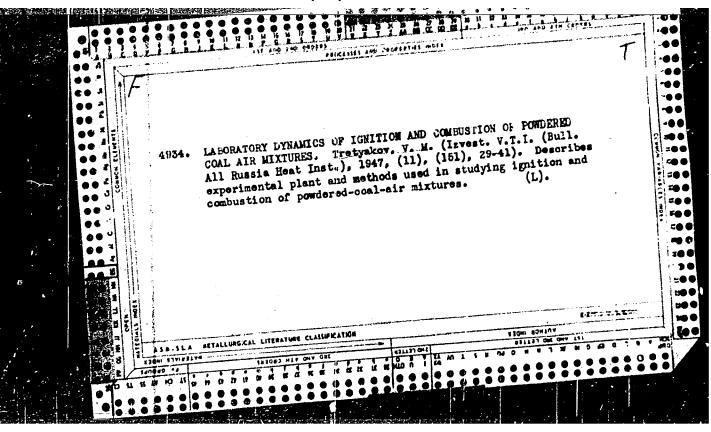


TISHCHENKO, A.F.; TRET'YAKOV, V.L.

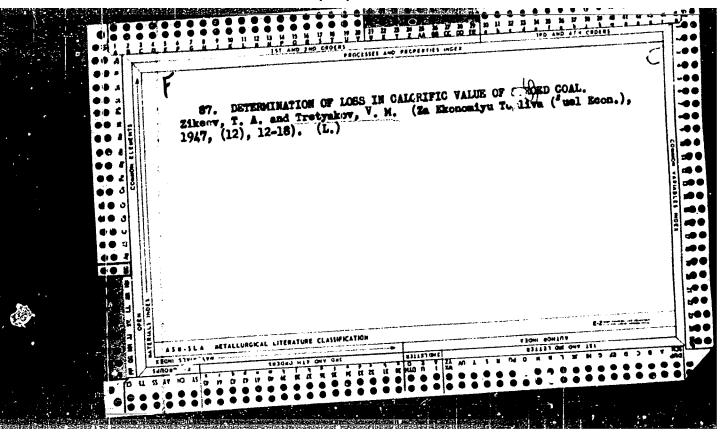
Production of chemical woodpulp from aspen at the Zhidachov Cardboard and Paper Combine. Bum. 1 der. prom. no.3:21-24 J1-S '63. (MIRA 17:2)

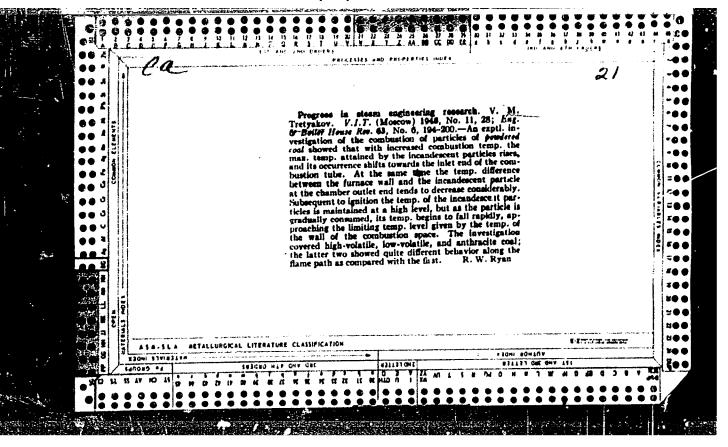


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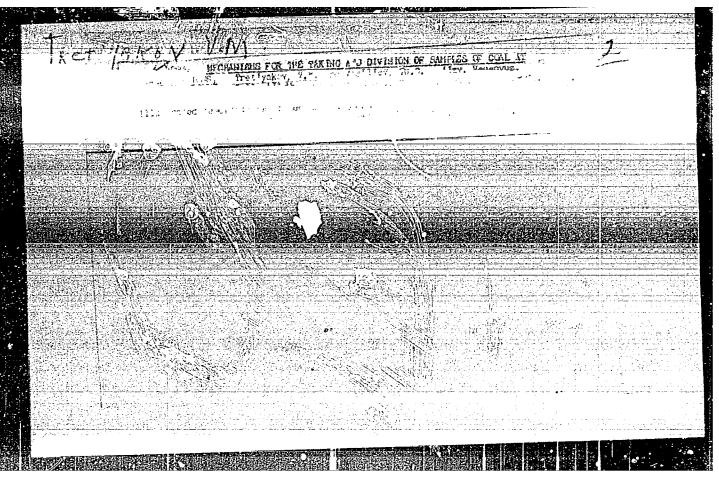


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TRET YAKOV, VM.

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62552

Author: Tret'yakov, V. M.

Institution: None

Title: Investigation of Combustion of Coal Dust Aerosuspension at Elevated

Pressures

Original

Periodical: Teploenergetika, 1955, No 10, 38-45

Abstract: Investigation of combustion of pulverulent aerosuspension in a

tubular chamber 20 mm in diameter and one m long. It was found that with a corstant temperature of burning and equal duration of the presence of coal particles in the combustion chamber completeness of combustion of aerosuspension and rate of combustion of the coal dust are practically independent of pressure. It has been demonstrated experimentally that steady combustion of anthracite aerosus-

pension is possible at pressures up to 8 atm and considerable thermal

lcads.

Card 1/1

AID P - 4369

Subject

: USSR/Heat Engineering

Card 1/1

Pub. 110-a - 14/19

Author

: Tret'yakov, V. M., Eng. All-Union Heat Engineering Institute

Title

: Coal dust feeder for research work

Periodical: Teploenergetika, 4, 55-56, Ap 1956

Abstract

: A detailed description of a slow-motion coal dust

feeder used for experimental work is given. Two dia-

grams.

Institution: None

Submitted: No date

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ATTHORS: Presivakov, T. M. J. Korp	118 / F. C. Syrie/ere, B. L. (Sankovskiy, A. A. S. O.
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SOURCE: Byslleten! isobreteniy i	tova myka ki shury ad 1-31 1965, 95
ZOPIG TAIS: sealing, hermetic se	saling, leek dekt. 'r holling lon dindarge
	te presents a satbod of testing products for high pressure, for more acry ate determination of
leaking in a product, a glow-disc	tharge is produced in the helium molecules leaking tot (with the help of an electric field). The (low which indicates the presence of leaks.
ASSOCIATION: Organizatelya gosuc (Enterprise of the State Counitt	larstvennogo komiteta po aviatsionnoy tekhnike SJSR De for Aviation fertinology, SSSI
SCRMITTED: 14Jun63	ENCL: 00 BUB CODE: IE
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TRET'YAKOV, V.M.; KLEYMENOVA, I.I.; DVORETSKIY, A.I., kand. tekhn.

nauk, red.; SAVEL'YEV, V.I., red.; VORONIN, K.P., tekhn. red.

[Automatic device for collecting average samples of fuel gas]

Avtomaticheskii sbornik srednikh prob goriuchego gaza. Moskva.

[Automatic device for collecting average samples of fuel gas]
Avtomaticheskii sbornik srednikh prob goriuchego gaza. Moskva,
Gosenergoizdat, 1960. 45 p. (MIRA 15:12)

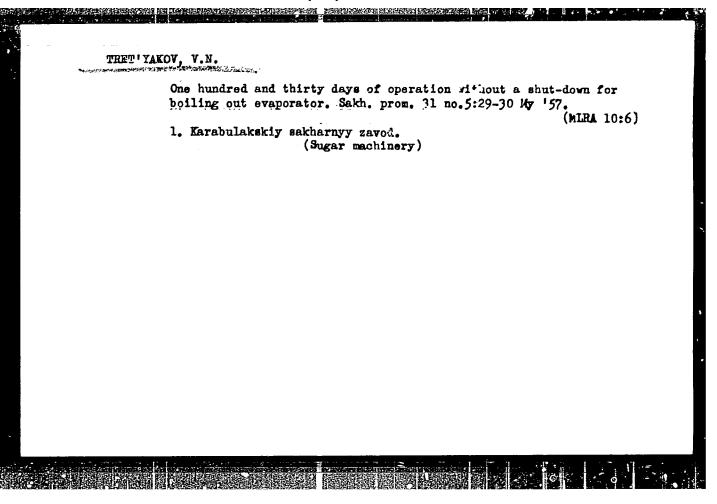
(Gas as fuel)

TRET YAKOV, V. N.: Master Vet Sci (diss) -- "The meat productivity of the cattle of Turkmenistan". Ashkhabad, 1959. 20 pp (Min Agric USSR, Leningrad Vet Inst) (KL, No 12, 1959, 131)

TRET'YAKOV, V.N.

Production of chemically precipitated chalk at the Biisk Sugar Factory.
Sakh.prom. 27 no.6:27-28 Je '53. (FURA 6:6)

1. Gruppovaya laboratoriya Altayskogo sakhsveklotres*a. (Chalk)



Increasing the holding capacity of white sugar bins. Sakh. prom. 31 no.6:37 Je '57. (MIRA 10:6) 1. Karabulakskiy sakharnyy savod. (Bins)

Boiling out the equipment of juice purification. Sakh. prom. 32 no.8:60-61 Ag '58. (MIRA 11:9) 1.Karabulakskiy sakharnyy zavod. (Sugar machinery)

Improvements at the Karabulak sugar factory. Sakh.prom.

14 no.3:42-44 Mr '70.

1. Karabulakokiy sakharnyy zavod.

(Karabulak--Sugar industry--Aquipment and supplies)

Use of excavators for sugar beet unloading. Sakh.prom. 38 no.2:45-47 F '64.

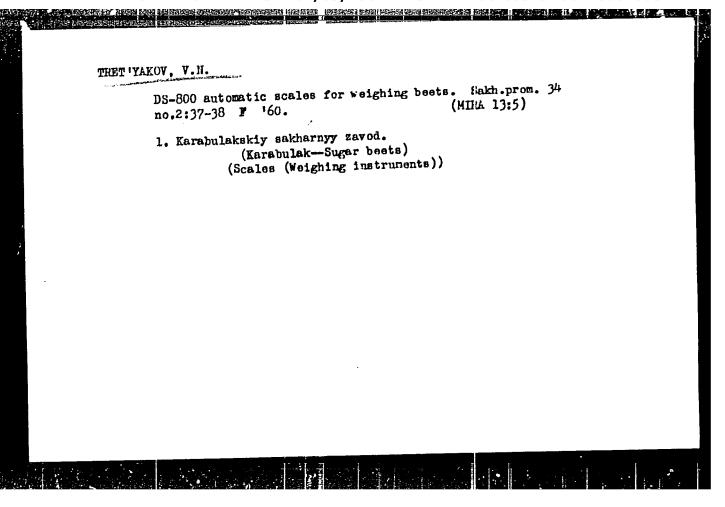
1. Ramonskaya normativno-issledovatel'skaya laboratoriya po trudu.

Improve labor productivity in the repair of sugar sacks. Sakh.prom.

[MIRA 17:2)

1. Ramonskaya normativno-issledovatel'skaya laboratoriya po trudu.

1. Ramonskiy sakha	rnyy zavod, , (Ba :gar industry-	agging) Equipment and	l supplies)	



Clamp construction of tubular dischargers. Energetik 11 no.7:
21-22 Jl '63. (MIRA 16:8)

(Electric protection) (Electric discharges)

DIAAP/AINL/SSD/ESD(t) L 698/265 EWT(m) 5/0250/61/908/009/0575/0578 ACCESSION NE: AP4047007 AUTHOR: Moroz. L. G., Tret yakov, V. N. TITLE: The polarized lity of the reutron SOURCE: AN BSSR. Doklady*, v. 8, no. 9, 1964, 575-578 TOPIC TAGS: neutron, neutron polatization, neutron scattering, meson cloud, weson uplarization, nucleon ABSTRACT: The electric polarizability derived from scattering experiments with slow neutrons seems larger than that supported by other experimental data. The contribution due to the meson cloud has been considered by several authors. The present authors calculate the electric and magnetic meson polarizability at 60 MeV with forward scattering using dispersion relations for the independent amplitudes. The total (ompton scattering amplitude in the centroid wystem is expressed a a linear combination of these emplitudes. The dispersion relations for the real part are then given. Using unitality requirements, the imaginary part is expressed as a bilinear combination of amilitudes for 1-meson production at the nucleon in the S- and P-states. This can then be directly expressed by the angular distribution coefficients of the photomesons created at a proton and the ratio of cross sections Card 1/2

CIA-RDP86-00513R001756610001-4

L 6984-65 ACCESSION HR: AP4047007

for +-meson production at the threshold of photoproduction. After some manipulations, the polarizabilities are given in terms of dispersion integrals which are then integrated by Simpson's method using six points, the numerical results so obtained being then tabulated. The electric polarizablity was found to be (1.23 + 0.25): 10-42 cm3, and the magnetic: (7.7 · 10) x 10 · 44 cm3. Recoll contributions can be neglected in this region. The values agree for those of the proton : In order of magnitude, thus supporting Baldin's assumption. These results pormit a conclusion to be drawn in favor of polarization of the ff-meson cloud as the main mechanism of the polarizability of nucleons. "The authors acknowledge aid from V. K. Fedyanin and V. A. Petrun'kin'. Orig. art. has: I table, and 7 equations.

ASSOCIATION: Institut fiziki AN BSSR (Physics Institute, AN BSSR)

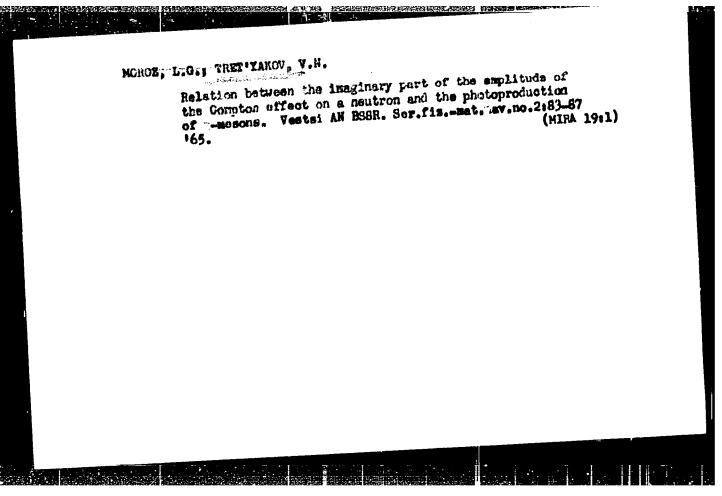
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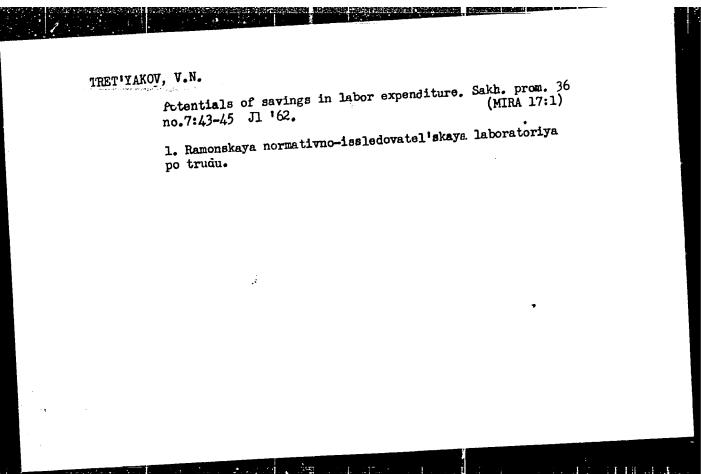
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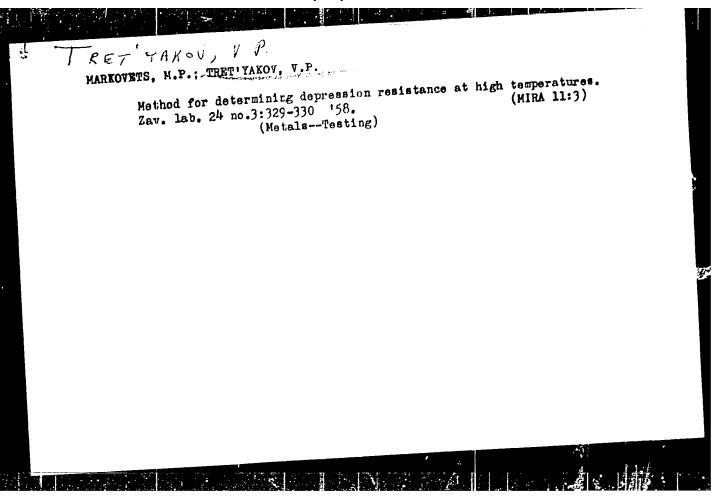
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Card 2/2



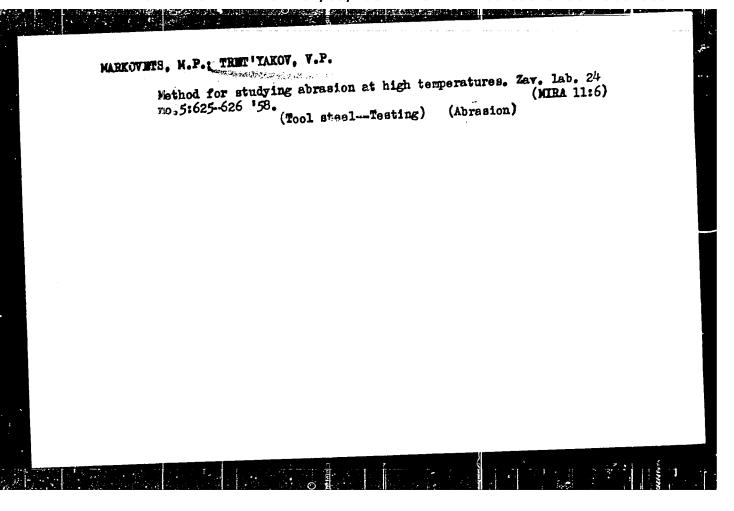




TRETIYAKOV, V.P., RUDAKOV, Ye.S.

Pree energies of intermolecular reactions in liquids. Izv. SO
AN SSSR ho.7 Ser.khim.nauk no.2:67-73 '63. (MIRA 10:10)
AN SSSR.

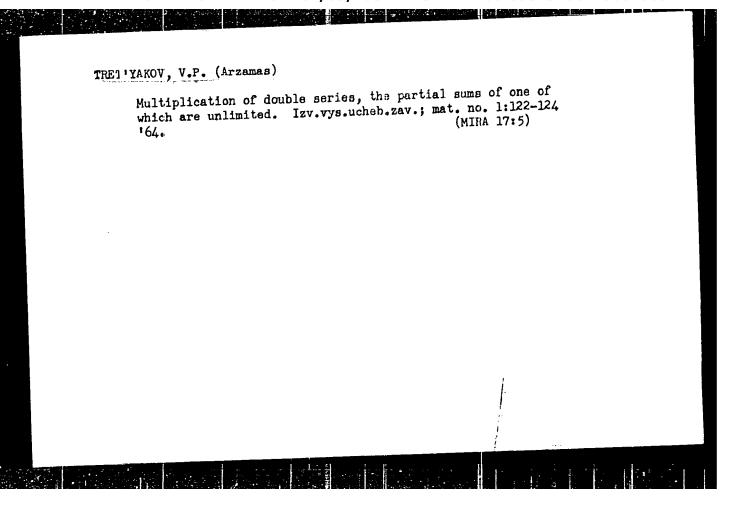
1. Novosibirskiy institut organicheskoy khinii Sibirskogo otdeleniya
AN SSSR.

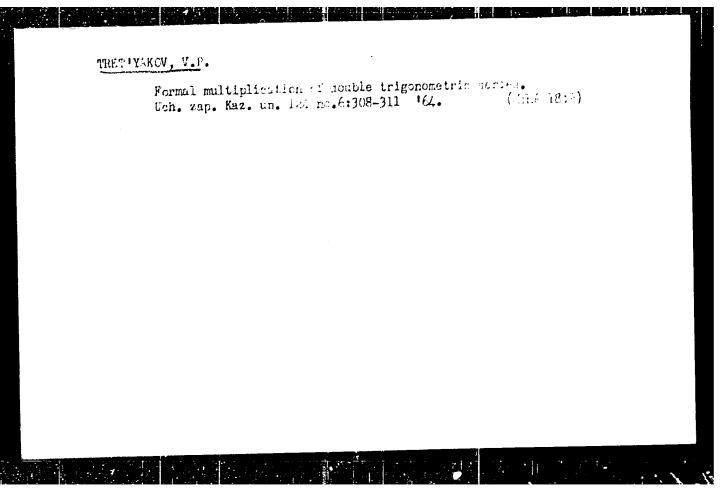


RUDAKOV, Ye.S.; TRET'YAKOV, V.P.

Henry's coefficients for tertiary butyl chloride in ethyl, ne-butyl, and n-hexyl alcohols. Izv. SO AN SSSR no.7 Ser. khim nauk no.2:137-138 '64 (MIRA 18:

1. Nevosibirskiy institut organicheskoy khimii Sibirskogo oʻdeleriya AN SSSR.





32-3-27/52 AUTHORE: harkovets, M.F., Tret'yakov, V.P.

A Nethod of Leterm ning Crumpling Resistance at high Temperatures TITLE:

(Metodika opredeleniya soprotivieniya swyatiyu ora vysokika

temperaturakn)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 2h, Nr 3, pp. 329-330 (USSR)

Armethod of determining crumping tensions was developed. It is ABSTRACT:

based upon measuring the stress exercised by a sphere with a diameter of 10 mm which leaves a groove of 0.9 mm orameter. In order to bring this about several grooves were made, and by interpolation the stress corresponding to that of a 0.9 mm diameter was calculated. For this purpose a heatable device was developed (I.N. Bogdanov and A.N. Kolesnikova assisted in constructing the furnace) which essentially consists of a dynamometer to unich the

pressure stress of a hard-alloyed spherical segment (with 10 mm chameter), which is pressed onto he investigated sample is trans-

mitted by way of a leaf spring. Work can be carried out at temperatures of 20 - 800° C. Investigation results show that at temperatures of 700 - 800° C punching alloys show better cru plang re-

Card 1/2

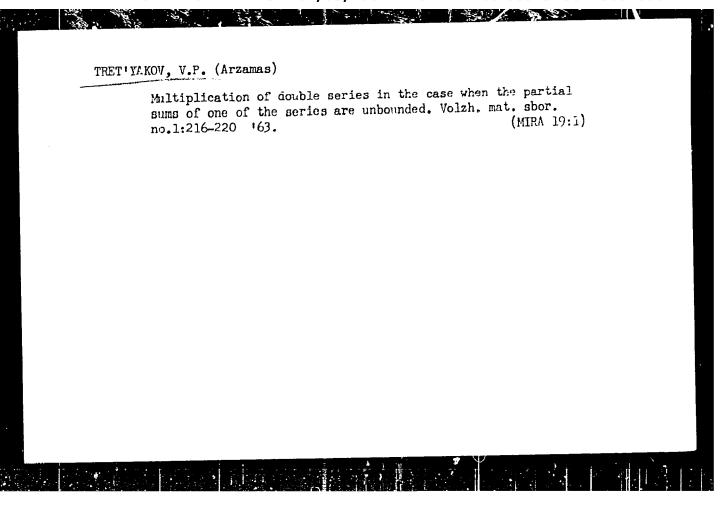
A Method of Determining Crumpling Resistance at High Temperatures

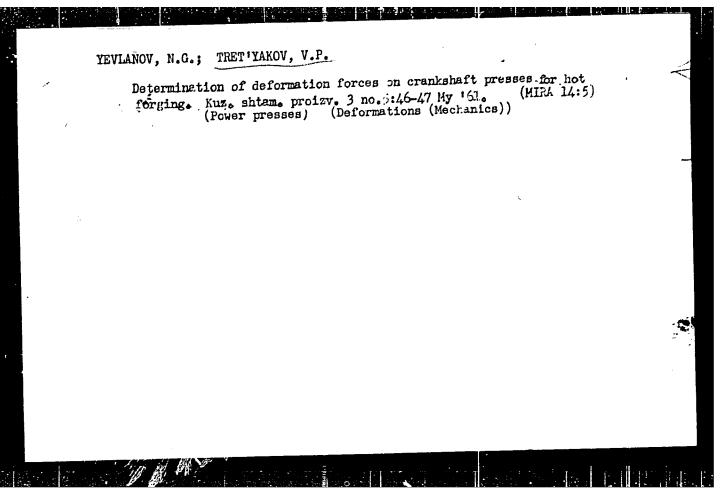
32-3-27/52

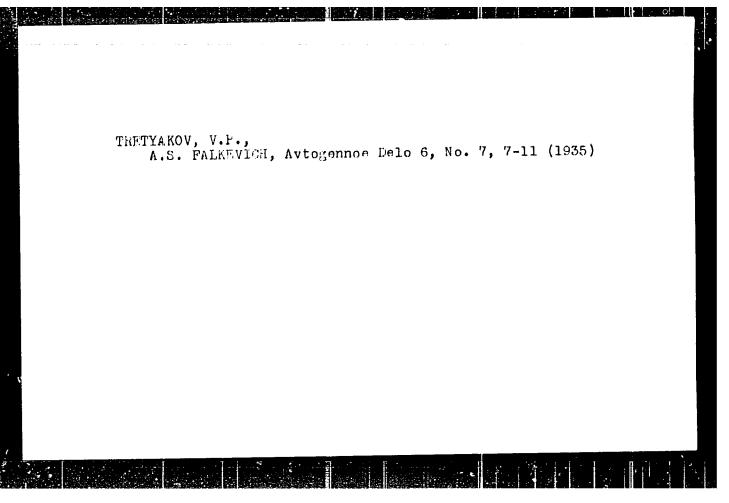
sistance than punching tool steel. There are a figure, I table and 1 reference, 1 of which is slavic.

AVAILABLE: Library of Congress

1. Steel alloys-test methods 2. Steel alloys-Test results







Theory of formal miltiplication of double serios. Izv.vys.ucheb. zav.; mat. no.5:78-85 '61. 1. Kazanskiy gosudarstvennyy universitet imeni V.I.Ul'yanova-Lenipa. (Series)

ZHDANOV, V.A.; TRET'YAKOV, V.P.

Temperature dependence of the Debye temperature of CU₃ Au alloys.

Izv.vys.ucheb.zav.;fiz.no.2:14-18 '63. (MIRA 16:5)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudar-stvennom universitete imeni Kuybysheva.

(Copper-gold alloys-Thermal properties)

BERNOTH STATE OF THE STATE OF T

AL'PEROVICH, Yu.I.; GUTCHIN, I.B.; KAYEYSHEVA, L.S.; TEFLOV, L.P.;

BOCDANOV, G.G.; DROEYSHEV, Yu.G.; SMIRNOV, G.V.;

TRET'YAKOV, V.S.; BREYDO, M.I.; YEVSEYEV, L.A.; STEBAKCV,

S.A.; FEDCHENKO, V., red.

[The ABC's of automation; collected articles] Azbuka avtomatiki; sbornik. Moskva, Molodaia gvardiia, 1964. 349 p. (MIRA 17:7)

TRET YAKOV, V.V.

Modified portable mercury vapor lamp. Ortop.travm. i protez. 17 no.6: 133 N-D '56. (MLRA 10:2)

1. Zaveduyushchiy eksperimental'noy masterskoy. Iz Rizhskogo nauchnoissledovatel'skogo instituta ortopedii i vosstanovitel'noy khirurgii. (ELECTRIC LIGHTING, MERCURY VAPOR)

TPET 'YAKOV, V.V.; ONDZULS, P.A. (Riga)

Apparatus for the application of controlled thermal burns in laboratory animals. Pat. fiziol. 1 eksp. terap. 4 no. 5:68-69 S-0 '60. (MIRA 13:12)

l. Iz laboratorii patologicheskoy fiziologii i funktsional'noy diagnostiki (zav. - prof. L.M. Gol'ber) Rizhskogo nauchno-issledo-vatel'skogo instituta trevmatologii i ortopedii.

(BURNS AND SCALES)

TRET YAKOV, V.V.

Registering the amplitude of flexion of the knee joint with the electrocardiography. Ortop., travm.i protez. 20 no.12:46-49 D 159. (MIRA 13:5)

1. Zaveduyushchiy eksperimental noy masterskoy Rizhskogo na mtnoissledovatel skogo instituta travmatologii i ortopedii (dir. prof. O.M. Rudenko [deceased]).

(KNEE) (ELECTROCARDIOGRAPHY)

TRET 'YAKOV, V.V.; ONDZUL, P.A.

Electrical thermometer for measuring skin temperature. Biul. eksp. biol. i med. no.2:115-116 F '61. (MIRA 14:5)

l. Iz laboratorii patologicheskoy fiziologii i funktsional'noy diagnostiki (zav. - prof. L.M.Gol'ber) Rizhskogo nauchno-issledovatel'-skogo instituta travmatologii i ortopedii (dir. - kand.med.nauk Y.K. Kaliberz). Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym. (BODY TEMPERATURE)

Sanitary supervicion of enterprises and institutions using radioactive substances in their work. Gig. i san. 26 no.8:63-67 Ag (61. MHRA 15:4)

1. Iz radiologicheskoy laboratorii respublikanskoy sanitarno-epidemiologicheskoy stantsii Latviyskoy SSR. (RADIATION PROTECTION)

ONDZULS, P.A.; TRET'YAKOV, V.V. (Riga, ulitsa Maza Pils, dom 11, kvartira 2)

Indicator of the degree of relative displacement of the bones of the extremities at the site of fracture in skeletal traction. Ortop., trevn. i protez. no.8:58-60 '62. (MIRA 17:10)

1. Iz laboratorii patologicheskoy fiziologii i funktsional'noy diagnostiki (zav.- prof. L.M. Gol'ber) Rizhskogo instituttravmatologii i ortopedii (dir.- kand. med. nauk V.K. Ka'nberz [Kalnberzs, V.].

AUTHOR: Repin, Yu. M. (Sverdlovsk); Tret'jakov, V. Ye. (Sverdlovsk)

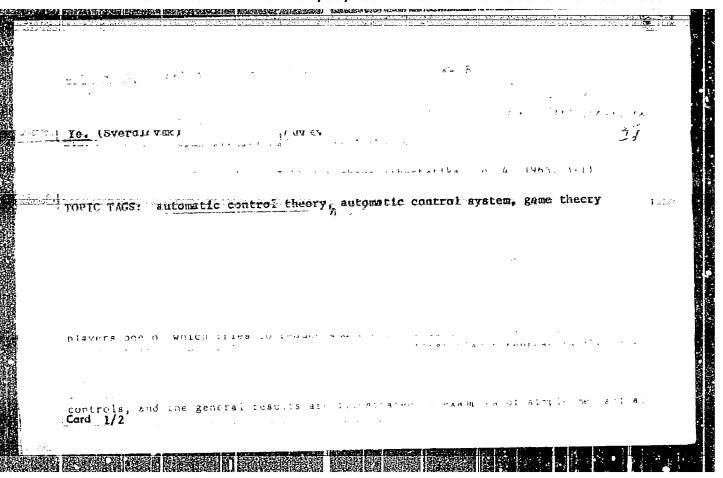
TITLE: Solving the problem of analytical design of controllers by means of analog computers

SOURCE: Avtomatika i tolemekhanika, v. 24, no. 6, 1963, 738-743

TOPIC TAGS: analytical design of controllers, analog computer

ABSTRACT: A. M. Letov (Avtomatika i telemekhanika, vol. 21, no. 4, 5, 6, 1960) suggested a set of linear differential equations that described a control system; he also submitted a solution that included a set of algebraic equations. However, the latter had very hard-to-obtain multiple solutions. The present article offers a set of nonlinear differential equations "equivalent" to the above algebraic. This set is readily solvable by means of an analog computer. Also a mathematical investigation is presented of the necessary and sufficient conditions that make the problem of designing the "optimum controller" solvable. Derivation of these conditions is based on the relations obtained by R. E. Kalman (Proc. Symp. Appl. Mathem., vol. 13, 1962). "The authors are using this opportunity to express their appreciation to N. N. Krasovskiy for discussing this article." Orig. art. has: I figure

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ACCESSION NR: AP5021846 motion modeled on computers (motion of two mans points alon in the computer of two mans points alon positions). Orig. art. has: 36 formulae and 10 figures.	
motion modeled on computers (motion of two mans points along the control of two mans	
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	L 29186-66 EWT(d)/FSS-2 IJP(e) BC ACC NR. AP6017846 SOURCE CODE: UR/0376/66/002/005/0587/0599
	AUTHOR: Krasovskiy, N. N.; Tret'yakov, V. Ye.
	ORG: Ural State University im. A. M. Gor'kiy (Ural'skiy gosudarstvennyy universitet)
	TITLE: On the pursuit problem with constraints imposed upon the impulses of the control response
	SOURCE: Differentsial'nyye uravneniya, v. 2, no. 5, 1966, 587-599
	TOPIC TAGS: automatic control, optimal control, pursuit problem, motion mechanics
	ABSTRACT: The pursuit problem for two objects whose motion is described by the differential equations:
	$\dot{y} = Ay + Bu, \qquad -(1)$ $\dot{z} = Gz + Mv. \qquad -(2)$
	$\dot{z}=Gz+Mv. \qquad -(2)$
	where $y(t)$, $Z(t)$ and $u(t)$, $v(t)$ are the state and control vectors of the pursuing and the pursued objects, respectively, and A,B,G,M are constant matrices, is analyzed under the assumption that $u(t)$ and $v(t)$ are constrained at every instant τ by the
·	under the assumption that u(t) and v(t) are constrained at 500,

ACC NR: AP6017846		0
inequalities	e. Na grajnišmas v alakoj projem	
	$\int_{\tau}^{n} \left[\sum_{j=1}^{r} u_{j}^{2}(t) \right]^{1/2} dt < \mu(\tau), \qquad (3)$	
	$\int_{\tau}^{\infty} \left[\sum_{s=1}^{l} v_s^2(t) \right]^{1/2} dt < v(\tau), \tag{4}$	
	T sml	:
ponses. Inder the assi	considered as constraints on the impulses of consumption that the pursued knows the coordinates Y_1 (τ) and $Z_{4}(\tau)$
and the hounds u(T) and	$v(\tau)$ at every instant $t = \tau > 0$ and the pursuer k 0), $\mu(\tau)$, $v(\tau + 0)$, and $v(\tau + 0)$, but the next mo	nows the
opponents is not known	to either one, the control	
	$v_1 = \xi^0 (y(\tau), z(\tau + 0), \mu(\tau), \nu(\tau + 0), \nu(\tau + 0)),$	

is sought which ensures an encounter of the two objects no matter what control

$$v(\tau) = \eta[y(\tau), z(\tau + 0), \mu(\tau), v(\tau + 0), v(\tau + 0)]$$

is chosen. It is considered that the control $u = \xi^{\circ}$ together with the control $v = \eta^{\circ}$ constitute a pair of optimal controls if: 1) at Y = ξ° and $v = \eta^{\circ}$, an en-

The dyn ces no.	in case 0v depossibilition programs ses (1) and 4, 1965].) and z(t) we eviates from the sof solving method (2) introduced The difficum are analyzustrated by	n n°, the old the delay and on the old in the old in the old the old in the o	encounter the fined problem of the concept author's earing here oresented a	akes place em are dis of attain article [T are indic approach to	not later cussed on the ability dome whicheska ated and the the solutions.	than at t = he basis of ains for pr ya kibernet e means for on of the n	: 3°.
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REPIN, Yu.M. (Sverdlovsk); TRET YAKOV, V.Ye. (Sverdlovsk)

Solution of a problem on the analytical design of controllers using electronic analog computers. Avtom. i telem. 24 no.6: 738-743 Je *63. (MIRA 16:7)

(Automatic control)
(Electronic analog computers)

KRASOVSKIY, N.N. (Sv.rdlovsk); REPIN, Yu.M., (Sverdlovsk); TRET'YAKOV, V.Ye. (Sverdlovsk)

Some game situations in the theory of regulated systems.

Izv. AN SSSR. Tekh. kib. no.4:3-1.3 Jl-Ag '65. (MIRA 18:11)

TRET'YAKUV, Ya. (Novosibirsk)

Attack on losses. Mest.prom. i khud.promys. 4 no.3:12-13 Mr '63.
(MIRA 16:4)

1. Spetsial'nyy korrespondent zhurnala "Mestnaya promyshlennost' i khudozhestvennyye promysly".
(Novosibirsk—Clothing industry)

TRET'YAKOV, Ye. (Chelyabinsk)

Behind the rows of average figures. Mest. prom. i khud. promys.
3 no.9:8-13 S '62. (MIRA 16:12)

1. Spetsial'nyy korrespondent zhurnala "Mestnaya promyshlennost'
i khudozhestvennyye promysly."

TRET'YAKOV, Ye. (Moskva)

Don't forget books. Mest. prom. i khud. promys. no.5:23 My '63.
(MIRA 16:7)

(Moscow—Service industries) (Bookbinding)

TRET'YAKOV, Ye.

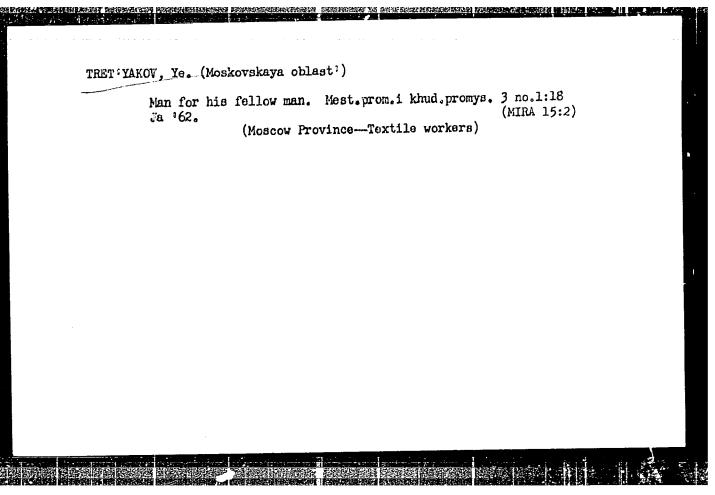
When the aim is clear. Mest.prom.i khud.promys. 3 no.2:15-16
F'62. (MTRA 15:2)

1. Spetsial'nyy korrespondent zhurnala "Mestnaya promyshlennost' i Khudozhestvennyye promysly."

((Belgorod—Socialist compstition)(Molding(Founding))

Captives of formalism. Mast.prom.i khud.promys. 2 no.7:19 Jl (MIRA 15:1)

(Moscow--Socialist competition)



TRETYAKOV, YE.

37

PHASE I ECCE EXPLOITATION

SOV/5985

Rokotyan, Ye. S., Doctor of Tochnical Sciences, ed.

Prokatnoye proizvodatvo; spravochnik (Rolling Industry; Handbook) v. 1. Poscov, Motallurgizdat, 1962. 743 p. Errata slip inserted. 9250 copies printed.

Authors of this volume: B. S. Azaronko, Candidate of Technical Sciences; V. D.

Afanas'yev, Candidate of Technical Sciences; M. Ya. Brownen, Engineer; M. P.

Vavilov, Engineer; A. B. Vernik, Engineer; K. A. Golubkov, Engineer; S. I.

Gubkin, Academician, Academy of Sciences BSSR; A. Ya. Guroviah, Engineer; V. I.

Davydov, Candidate of Technical Sciences; V. G. Drozd, Engineer; M. F.

Permolayov, Engineer; Ya. A. Zhukovich-Stopha, Engineer; R. M. Kirilin, Candidate

of Technical Sciences; M. V. Kovynov, Engineer; A. M. Kogos, Engineer; A. A.

Korolev, Professor; M. Ye. Kugayenko, Engineer; A. V. Lankin, Engineer; B. A.

Korolev, Professor; M. Ye. Kugayenko, Engineer; I. M. Payerovich, Candidate of

Levitanskiy, Engineer; V. M. Lugovokoy, Engineer; I. M. Pastornak, Engineer; I. L.

Technical Sciences; M. S. Ovcharov, Engineer; V. I. Pastornak, Engineer; I. L.

Perlin, Doctor of Technical Sciences; I. S. Pobedin, Candidate of Technical

Sciences; Ye. S. Rokotyan, Doctor of Technical Sciences; M. M. Saf'yan, Candidate of Technical Sciences; V. V. Smirnov, Candidate of Technical Sciences;

V. S. Smirnov, Corresponding Member, Anademy of Sciences USSR; O. P. Sokolovskiy,

Card 1/10

32

Rolling Industry; Handbook

SOV/5/185

Engineer; O. P. Solov'yev, Engineer; M. A. Sidorkevich, Engineer; Ye. M. Trat'yakov, Engineer; I. S. Trishovskiy, Candidate of Technical Sciences; G. N. Khenkin, Engineer; and A. I. Tsolikov, Corresponding Fember, Academy of Sciences USSR. Introduction: A. I. Tsolikov, Corresponding Member, Academy of Sciences USSR; Ye. S. Roketyan, Dector of Technical Sciences; and L. S. Al'shevskiy, Candidate of Technical Sciences.

Eds. of Publishing House: V. M. Gorobinchenko, R. M. Golubchik, and V. A. Rymov; Tech. Ed.: L. V. Dobuzhinskaya.

PURPOSE: This handbook is intended for technical personnel of metallurgical and machine-building plants, scientific research institutes, and planning and design organizations. It may also be useful to students at schools of higher education.

COVERAGE: The fundamentals of plastic deformation of metals are discussed along with the theory of rolling and drawing. Methods of determining the power consumption and the forces in rolling with plane surface or grooved rolls are

Card 2/13

EVALUATION DE LA COMPANIA DE LA COMP

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grooves (V. M. Lugovskoy, Ye. Tretyakov)	127
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Card 7/19	
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The steepness of the rising. Mest.prom.i khud. promys 3 no.1:2-4
Ja '63. (Mika 16:2)

1. Spetsial'nyy korrespondent zhurnala "Mestnaya promyshlennost'
i khudozhestvennyye promysly".

(Leningrad—Foundries—Technological innovations)

(Machinery, Automatic)

THET'YAKOW, Ye. Intercollegists scientific conference on the use of oxygen in zetallurgy. Wetallurg no.8:35-36 Ag '56. (MERA 9:10) 1.Moskovskiy institut stali. (Metallurgy) (Oxygen--Industrial applications)

TRET YAKOV, Ye. (Krasnogorskiy rayon, Moskovskoy oblasti)

Every little makes a mickly. Mest.prom.i khud.promys. 1 no.2/3:
22 N-D 160. (MIRA 14:4)

(Moscow Province—Industrial management)

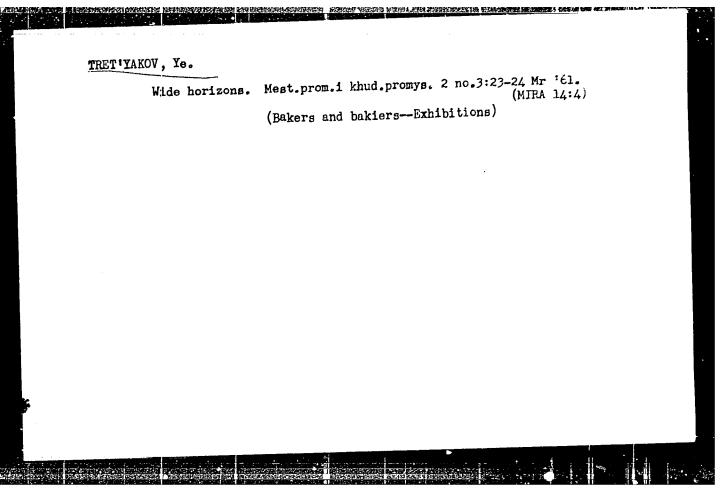
TRET'YAKOV, Ye. (g. Rostov-na-Donu)

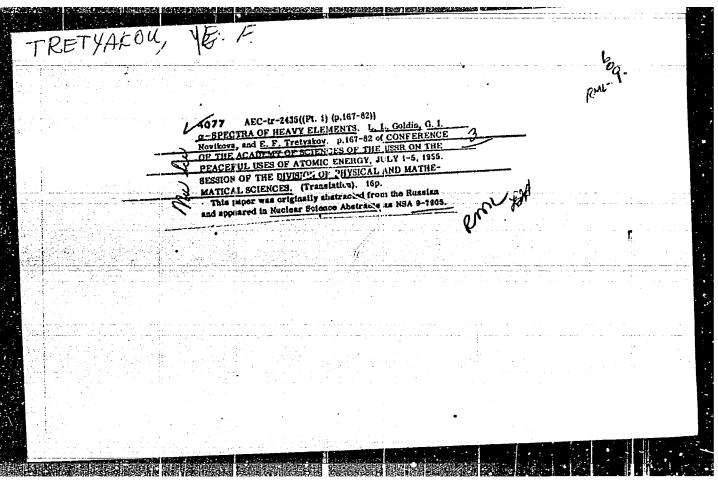
In the middle of the road. Mest.prom.i khud.promys. 2
no.5:29-30 My '61. (MIRA 14:5)

1. Spetsial'nyy korrespondent zhurnala "Mestnaya promyshlennost'
i khudozhestvennyye promysly."

(Rostov Province-Boots and shoes)

Monwoven fabrics. liest. prom. i khud. promys. 2 no.6:1A Je
'61. (Monwoven fabrics)





ACCESSION NR: AP4042589

s/0056/64/045/006/2241/2242

AUTHORS: Kondrat'yev, L. N.; Tret'yakov, Ye. F.

TITLE: New data on the excited levels of W-182

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 2241-2242

TOPIC TAGS: tungsten, level transition, beta spectrometry, photoelectron, internal conversion, multipolarity

ABSTRACT: The conversion-electron and photoelectron spectra of W¹⁸² were investigated in the toroidal-field iron-free double β spectrometer of ITEF, described elsewhere (Izv. AN SSSR, ser. fiz., v. 26, 1470, 1962). The results are used to compile an excited level scheme for W¹⁸². The multipolarities indicated on the level scheme were determined from the ratios of the internal conversion coefficient on different subshells in the case of low-energy transitions, and from the intensities in conversion-electron and photoelectron

ACCESSION NR: AP4042589

spectra in the case of high-energy transitions. The 892.2-keV transition between the 1222-and 329.6-keV levels was observed experimentally for the first time. The spins and parities of several excited levels of WI82 were determined from the multipolarities of the transitions. The results agree with all published data except the 1258-keV level, for which the authors obtain an assignment 3, with the literature data giving either 2 or 1. Orig. art. has: 1 figure.

ASSOCIATION: None

SUBMITTED: 13Aug63

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ENCL: 01

SUB CODE: NP.OP / NR I

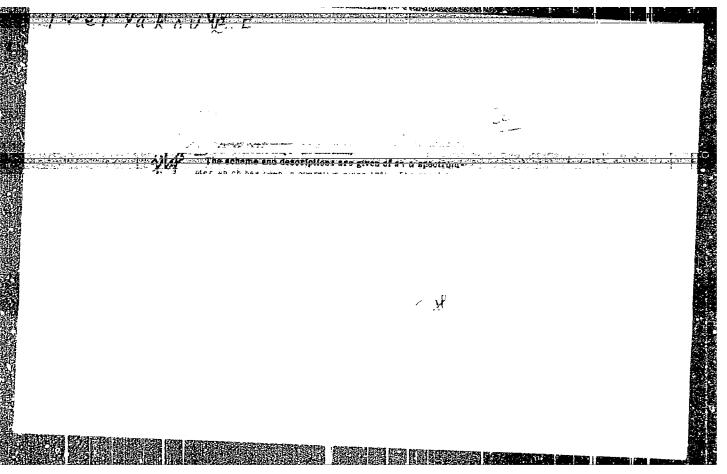
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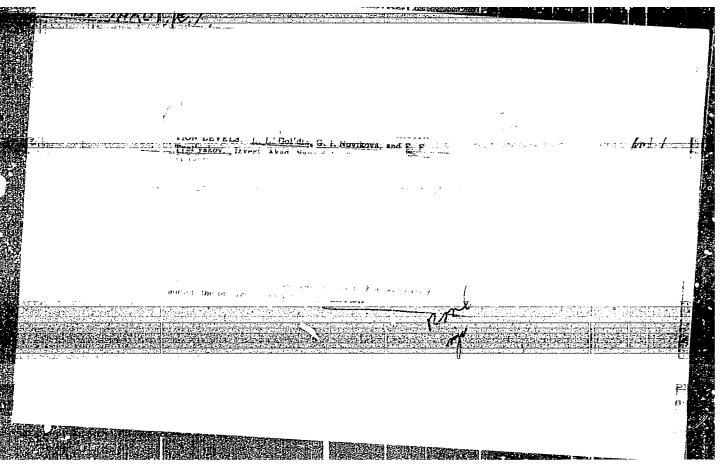
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Card 2/3

ACCESSION NR: AP4042589	enclosure: 01
12020 1121 8 892,2 12020 156,7 1373 1375 1257,8 1157,9 929 EI (*E3*M2) 67,73 EI 264,34 E2 1289,7 1289,7 1289,7 1003 E2*MI 1231,0 1003 E2*MI E2 1275 1045 EI 1375 1275 1045 EI 1526 84,68 E2*MI E2 1000,000 223,55 152,6 84,68 E2*MI E2 152,6 1	Excited levels of W ¹⁸²

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756610001-4





TRETYALOV, Ye F.

AUTHORS: Tret'yakov, Ye.F., Gol'din, L.L., and Grishuk, G. I.

TITLE: A Toroidal Beta greatrometer for Studying

A Toroidal Beta-spectrometer for Studying the Conversion Radiation Accompanying Alpha-decay (Toroidal'nyy Beta-spektrometr dlya issledovaniya konversionnogo izlucheniya

soprovozhdayushchego al'fa-raspad)

PERIODICAL: Pribory 1 Tekhnika Eksperimenta, 1957, No. 6, pp. 22 - 26 (USSR).

ABSTRACT: An ironless spectrometer of alphase coincidences with spatial focussing of electrons is described. The instrument has a resolution of about 1% and an illumination of 7% (electrons). It can be used to study conversion lines with intensities of the order of 10⁻¹⁴ electrons per alphaseday. The construction of the spectrometer is illustrated in Fig. 3. The main part of the spectrometer is a toroidal coil,1, which produces the focussing field when a current passes through it. It consists of 800 copper turns which are water-cocled,3. Currents up to 30 A can be passed through the coil and electrons with energies up to 0.6 MeV can be focussed. The coil is placed in a copper cylinder which is evacuated to a pressure of 2 x 10⁻⁵ mm Hg. Close to the source is placed a photomultiplier, 14, which records alphasparticles. This photomultiplier can be placed either below or above the starce, %.

A Toroidal Beta-spectrometer for Studying the Conversion Radiation · Accompanying Alpha-Jecay.

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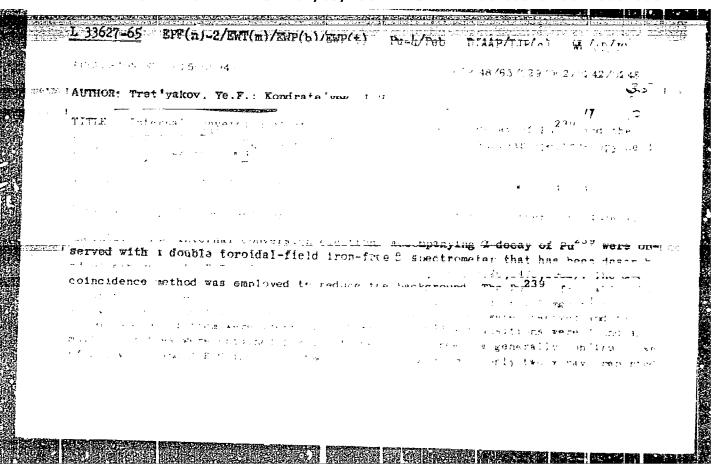
The electrons are detected by means of caystal of stillene 2 mm thick and mounted on a photomultiplier, it. For use with 20 keV electrons a CsI(Tl) obystal replaces the stillere crystal. A special "fast-slow" spinoidence scheme is used to count the number of alpha-e spinoidences. Trial experiments were carried out using the conversion like Love from the 43.5 keV gamma-line of Pu²³⁸ (electron energy 26.3 keV). Fig. 7 shows the conversion line Last (exit angles 59-440).
Half width at half height is 1.176. Fig. 9 shows the conversion lines Last and Last of the 100 keV gamma-radiation from Pu²³⁸ (transition from the 143.3 keV level to the 43.5 keV level). The time taken to obtain the latter curve was 12 hours. G.K. Papkevich assisted in the construction of the apparatus. There are 9 figures and 4 references, h of which is Slavic.

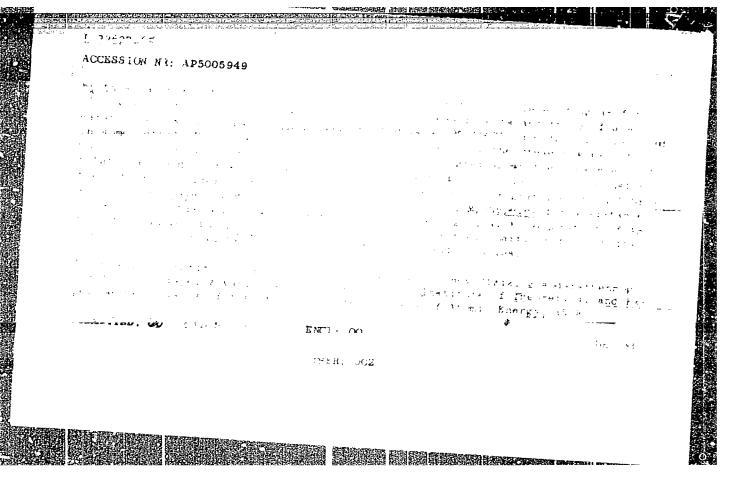
ASSOCIATION: Ac. Sc. USSR (AN SSSR)

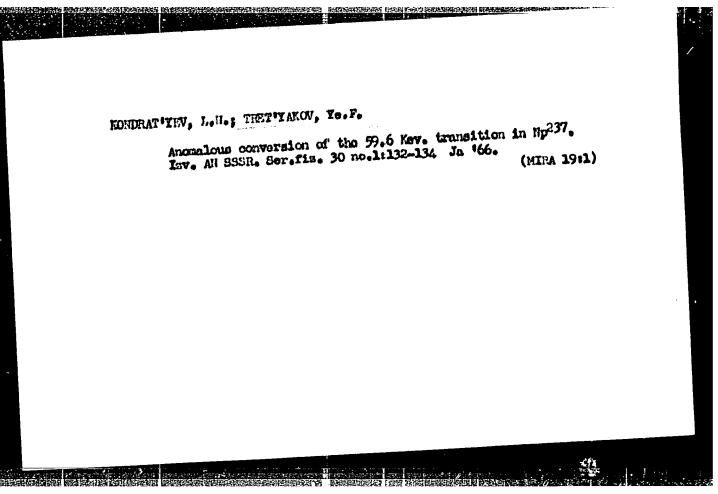
SUBMITTED: May 29, 1957.

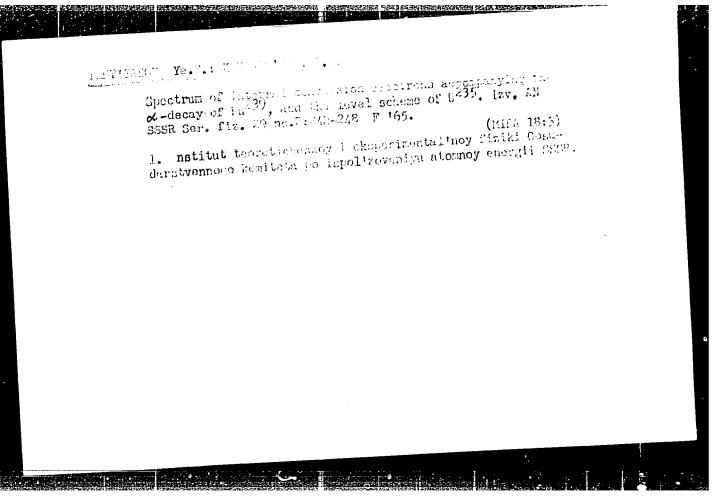
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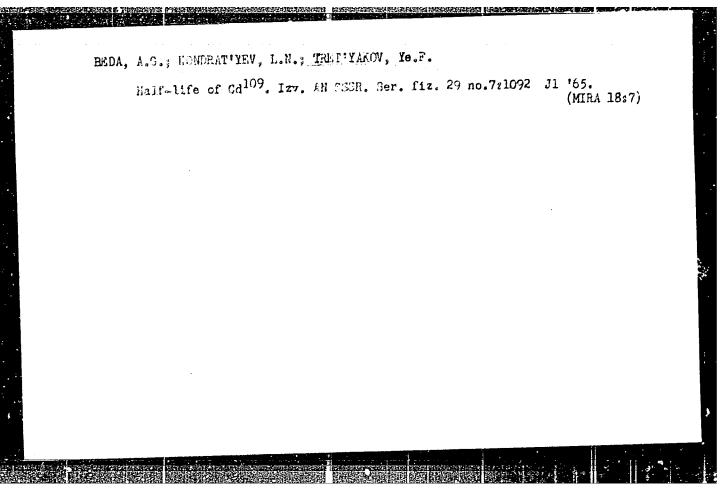
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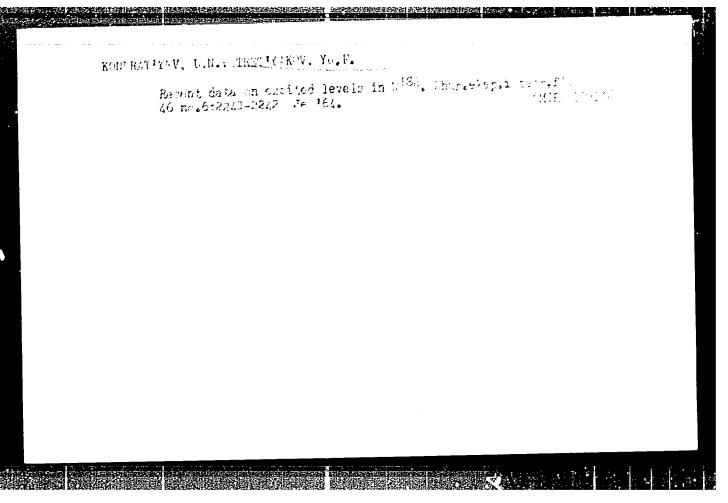












TRET'YAKOV, Ye, F.; KONDRAT'YEV, L. N.; GRISHUK, G. I.; NOVIKOVA, G. I.; GOL'DIN, L. L.

Double iron-free /3 -spectrometer with a toroidal field. Isv. AN SSSR. Ser. fiz. 16 no.12:1470-1474 D '62. (MIRA 16:1)

1. Institut teoreticheskoy i eksperimental'noy fiziki AN SSSR.

(Beta-ray spectrometer)

113811 s/048/62/026/012/003/016 B117/B186

24:6800 AUTHORS:

Tret'yakov, Ye. F., Kondrat'yev, L. N., Grishuk, G. I.,

Novikova, G. I., and Gol'din, L. L.

A double, air-core β -spectrometer having a toroidal field TITLE:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, PERIODICAL:

v. 26, no. 12, 1962, 1470-1474

TEXT: A β -spectrometer for investigating modes of decay using a coincidence method is described. Its principle parts are two toroidal coils, each weighing 400 kg, placed one above the other and divided into 4 sections connected in parallel for cooling purposes. For each coil the distance between source and detector is 800 mm. Each coil consists of 600 insulated turns made of 0.7 mm stamped copper, which are assembled in 60 packages. They are symmetrical with respect to the median plane of the coil, connected in series, reinforced and cooled in the middle by 2 mm sheet brass provided with a water-cooled pipe. The dimensions and the resolution of the apparatus are determined by the distance f between the source (detector) and the median plane of the coil, and by the coefficient K Card 1/3

S/048/62/026/012/003/016 B117/B186

A double, air-core β -spectrometer ...

from the equation $p(oe\ cm) = 0.2 \times ni\ (A)$, where p is the momentum of electrons to be focused, i the current intensity, and n the nur or of turns. f = 400, 7 = 0.8 were chosen as being optimum values. 'i e coils are contained in an evacuated case carrying counter-turns on the outside to compensate parasitic fields which are set up when current flows hrough the coil. A vacuum lock in the middle of the case permits installation of sources between the two coils when they are operating independently. Next to the lock there are Wilson seals for the rods connected with exchangeable diaphragms. Adjustable scintillation counters with stilbene crystals, mounted perpendicular to the axis of the apparatus on separate flanges, serve as detectors. The coils are supplied from two current stabilizers controlled by d-c tube amplifiers. The power supply system makes it possible to maintain a stabilized current of 3 - 70 a for continuous operation at 80 v, or 160 v with the two coils connected in series. Each of the earth's magnetic field components is compensated to 1/50 by 3 threefold coils, connected in series, which are fed by a stabilizer made up of transistors. Debugging the apparatus is very simple; it comes down to checking that the components are accurately made and correctly assembled. With a 4-mm source and a 5-mm diaphragu, one section of the coil has a resolution of 0.45%. With an open diaphragm the Card 2/3

A double, air-core β-spectrometer ...

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luminous intensity almost attains the geometrical value of 10% of 4x; with 0.45% resolution, it amounts to 2%. The resolution with an open exit diaphragm and a 4-mm source is 1%. The decrease in luminous intensity observed when the resolution is increased is related to the fact that the electrons are deflected in their trajectory by the stray field of the turns when they pass near the sections. The deflection of the trajectory can be partially compensated by switching in the second coil. This was confirmed in the case of a 4-mm source and a 5-mm diaphragm, with the second coil connected in series: the luminous intensity increased 1.5-fold and the resolution rose to 0.30%. The paper was presented at the 12th Annual Conference on Nuclear Spectroscopy held in Leningrad from January 26 to February 2, 1962. There are 4 figures and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki AN SSSR (Institute of Theoretical and Experimental Physics AS USSR)

Card 3/3

HOVIKOVA, G.I.; VOLKOVA, Ye.A.; GOL'DIN, L.L.; ZIV, D.M.; TRET'VAKOV,
Ye.F.

Radioactive decar of Ac²⁷⁷ and excited levels of Fr²²³ and
Th²²⁷. Zhur.eksp.i teor.fiz. 37 no.4:928-937 0 '59.

(Actinium--Isotopes) (Thorium--Isotopes)

(Francium--Isotopes)

GOL'DIN, L.L.; NOVIKOVA, G.I.; PIROGOVA, N.I.; TRET'YAKOV, ve.F.

Alpha-decay of Th²²⁹. Interaction of nuclear levels. Zhur.
eksp.i teor.fiz. 37 no.4:1155-1157 0 '59,
(MIRA 13:5)

(Thorium-Decay)

TRET'YAKOV, Ye.F.; ANIKINA, M.P.; GOL'DIN, L.L.; NOVIKOVA, G.I.;

PIROGOVA, N.I.

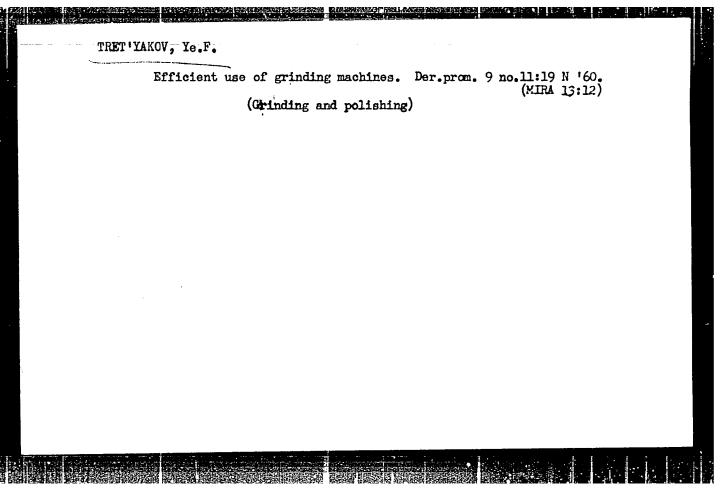
Spectrum of internal conversion electrons accompanying & -decay
of U²³³ and the energy level diagram of Th²²⁹. Ehur.eksp.i
toor.fiz. 37 no.4:917-927 0 '59. (MIRA 13:5)
(Uranium--Isotopes) (Thorium--Isotopes) (Electrons)

TRET'YAKOV, Ye.F.; PIROGOVA, N.I.; GOL'DIN, L.L.

Conversion transitions agreempanying the &-decay of Th 229, and

Conversion transitions accompanying the &-decay of Th²²⁹, and the level scheme of Ra²²⁹. Izv. AN SSSR. Ser. fiz. 25 no.2:274-282 F '61. (MIRA 14:3)

1. Institut teoreticheskoy i eksperimental'noy fiziki AN SSSR. (Thorium—Isotopes) (Radium—Isotopes)



s/048/61/025/002/012/016 B117/B212

AUTHORS: Tret'yakov, Ye. F., Pirogova, N. I., Gol'din, L. L.

TITLE: Conversion transitions accompanying the alpha decay of Th²²⁹,

and the level scheme of Ra 225

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

no. 2, 1961, 274-282

Card 1/7

TEXT: The present paper was read at the 10th All-Union Conference on Nuclear Spectroscopy (Moscow, 1960), and also at the 11th Annual Conference on Nuclear Spectroscopy (Riga, January 25 to February 2, 1961). It presents test results that have been obtained by the authors by using an advanced method of studying the spectrum of conversion electrons of Ra²²⁵. The investigations were carried out by using not only α -e $_{K}$ but also γ -e $_{K}$ (spectrum of conversion electrons in coincidence with gamma rays) and e $_{K}$ - γ coincidences (gamma spectrum in coincidence with the electron line). The conversion electrons were separated by means of a torroidal beta spectrometer of high intensity

S/048/61/025/002/012/016 B117/B212

Conversion transitions ...

(Ref. 4). The gamma quanta were recorded by means of a scintillation gamma spectrometer, which consisted of a NaI(Tl) crystal, an amplifier, and a one-channel analyzer. The measurements were made with a Th²²⁹ isotope which had been obtained by chemical separation of thorium from U²³³ that had been stored for a long time. Two test series have been made. Fig. 3 shows the internal-conversion electron spectrum for one of the series. A list of the conversion transitions obtained by analysis of the conversion lines of

Ra 225 is given in Table 2. Based on the results obtained, a new level scheme has been suggested for Ra 225 (Fig. 4). The data found during the investigation of alpha radiation of Th 229 (Ref. 2) are given on the left side of the scheme, while on the right side, there are the level parameters which had been found by analyzing the conversion-electron spectrum. It follows from Fig. 4 that it had been necessary to introduce a new level around 25.3 kev below α_0 . This necessity arose due to a 25.3-kev transition with high intensity (70%) that was in a cascade with a 17.3-kev transition. Besides, the investigation of e_K - γ coincidences showed that conversion

electrons of 25.3-kev transitions (Fig. 1) and 42.7-kev transitions coincide with garms quanta of energies of up to 200 kev. The necessity of intro-

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S/048/61/025/002/012/016 B117/B212

Conversion transitions ...

ducing a level below that of α_0 agrees with results given in Ref. 3. Apart from the above mentioned level, also a level near α_{214} had to be introduced. According to measurements, this level energy is 2 0.7 keV, with respect to

 α_0 . Several cascades confirmed this value that he seen calculated for a direct transition: 17.3 + 193.4 = 210.7; 86.3 + 124.4 = 210.7; 56.6 + 154.2 = 210.8. It is pointed out that the level introduced does not contradict the existing Th²²⁹ spectrum since the resolution of the alpha spectrometer used was not high enough to determine an expansion of the α_{214} -line by 1.2 kev. The energy of the 86.3-kev transition is almost the same as that of the α_{88} transition that had been observed in the investiga-

tion of the alpha spectrum. It had to be classified as a transition from the 210.7-kev level to the 124.4-kev level since it coincides almost completely (about 80%) with the XK-radiation. On the assumption (Ref. 2) that the α_{214} and α_{246} levels are the first two levels of the rotational

band, a transition of the type M1 + E2 must take place with a considerable intensity. In fact, such a transition was established. Its energy is 32 ± 0.7 kev and its intensity is about 5%. Spins and parities of levels

Card 3/ 7

Conversion transitions ...

S/048/61/025/002/012/016 B117/B212

 $(\alpha_{o}$ and above) have been introduced on the basis of data on the multipolar ity of transitions and intensities. The α_{214} level with a spin 5/2 and a positive parity is taken as starting point. Studies of the spin and the parity of the level $(\alpha_{-25.3})$ and of the α_0 and α_{20} levels and their assumed spin values led to the conclusion that the $(\alpha_{-25.3})$ level has a spin of 5/2or 3/2 and a negative parity. In the alpha spectrum of Th 229 to the $(\alpha_{-25.3})$ level could be found. This forbidden transition for an alpha decay seems to be due to the fact that its parity is opposite to that of other levels of Ra²²⁵. The authors thank G. I. Grishuk, V. F. Konyayev, Yu. N. Chernov, and S. V. Kalashnikov for assistance in the experiments. G. I. Novikova is mentioned. There are 4 figures, 2 tables, and 9 references: 6 Soviet-bloc.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and Experimental Physics of the Academy of Sciences USSR)

Card 4/7

S/048/61/025/002/012/016 B117/B212

Conversion transitions ...

Legend to Table 2: 1) error (kev); 2) intensity with respect to the alpha decay (%); 3) multipolarity

M n/tt	E, keV	По- греш- ность, keV	Интенсив- ность отно- сительно «-распада, % &	Мульти- польнооть	3% n/n	E, keV	Ho- rpein- nocts, keV	Ивтенсив- ность от- носительно «-распада, 2.%	Мульти- польность З
ı	17,3	0,1	30	M1	12	131,9	0,2	3	
2	23,7	0,3	5	;	13	137.0	0,1	10	M1
3	25.3	0,1	70	E1	14	143,0	0,2	3	
4	32	0,7	5+-3	M1 + E2	15	154,2	0,2	4	M1 (?)
5	42,7	0,2	26	Bi	16	156,5	0,2	6	M1
- 6	56,7	0,2	3	M1	17	179,9	0,5	0,5	
7	68,9	0,3	3	M1 + E2	81	193,4	0,1	16	: <i>M</i> i
8	75,1	0,1	18	E2	19	.210,7	0,1	10	3/1
8	86.3	0,1	15	M1	20	217,0	0.4	0.7+0.1	
10	107,2	0,3	1 1	l ,	21	242,2	0,3	0.3 + 0.1	1 o
11	124,4	0,2	12	M1	22	269	1,0	[0,10+0,05]	Tab. 2

Card 5/7

